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Space-efficient implementation of nested parallelism

Glenn J. Narlikar, Guy E. Blelloch

July 1997

PPOPP '97: Proceedings of the sixth ACM SIGPLAN symposium on Principles and practice of parallel programming

Publisher: ACM

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Many of today's high level parallel languages support dynamic, fine-grained parallelism. These languages allow the user to parallelism in the program, which is typically of a much higher degree than the number of processors. Hence an efficient ...

Keywords: dynamic scheduling, language implementation, multithreading, nested parallelism, space efficiency

Also published in:

July 1997 SIGPLAN Notices Volume 32 Issue 7

2 A provable time and space efficient implementation of NESL

Guy E. Blelloch, John Greiner

June 1998

ICFP '96: Proceedings of the first ACM SIGPLAN international conference on Functional programming

Publisher: ACM

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In this paper we prove time and space bounds for the implementation of the programming language NESL on various parallel architectures. NESL is a sugared typed  $\lambda$ -calculus with a set of array primitives and an explicit parallel map over arrays. ...

Also published in:

June 1996 SIGPLAN Notices Volume 31 Issue 6

3 Space-Efficient Implementations of Graph Search Methods

Robert E. Tarjan

September 1983

Transactions on Mathematical Software (TOMS), Volume 9 Issue 3

Publisher: ACM

Full text available: PDF (645.33 KB)

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